

SAN JOSE TO MERCED

California High-Speed Rail Authority Supplemental Alternatives Analysis



San Jose to Merced

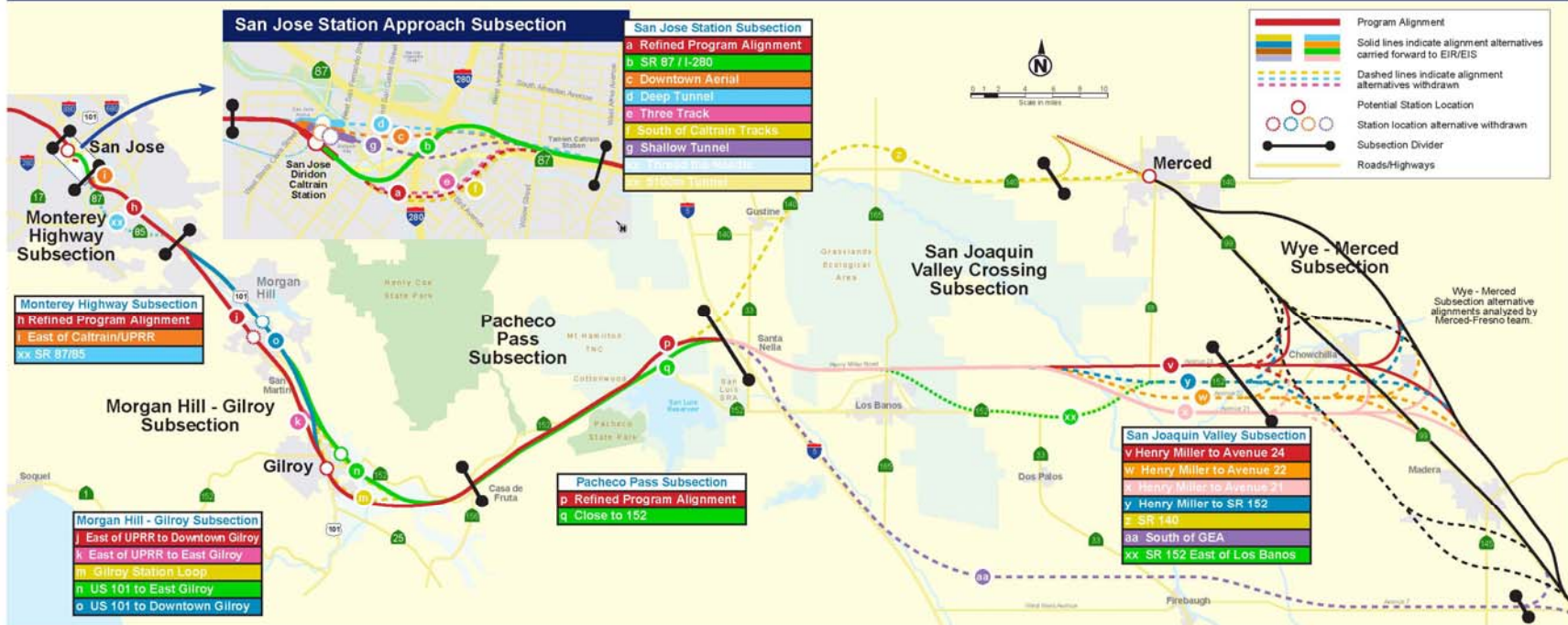
May 5, 2011

PRELIMINARY Alternatives Analysis

FIVE Subsections

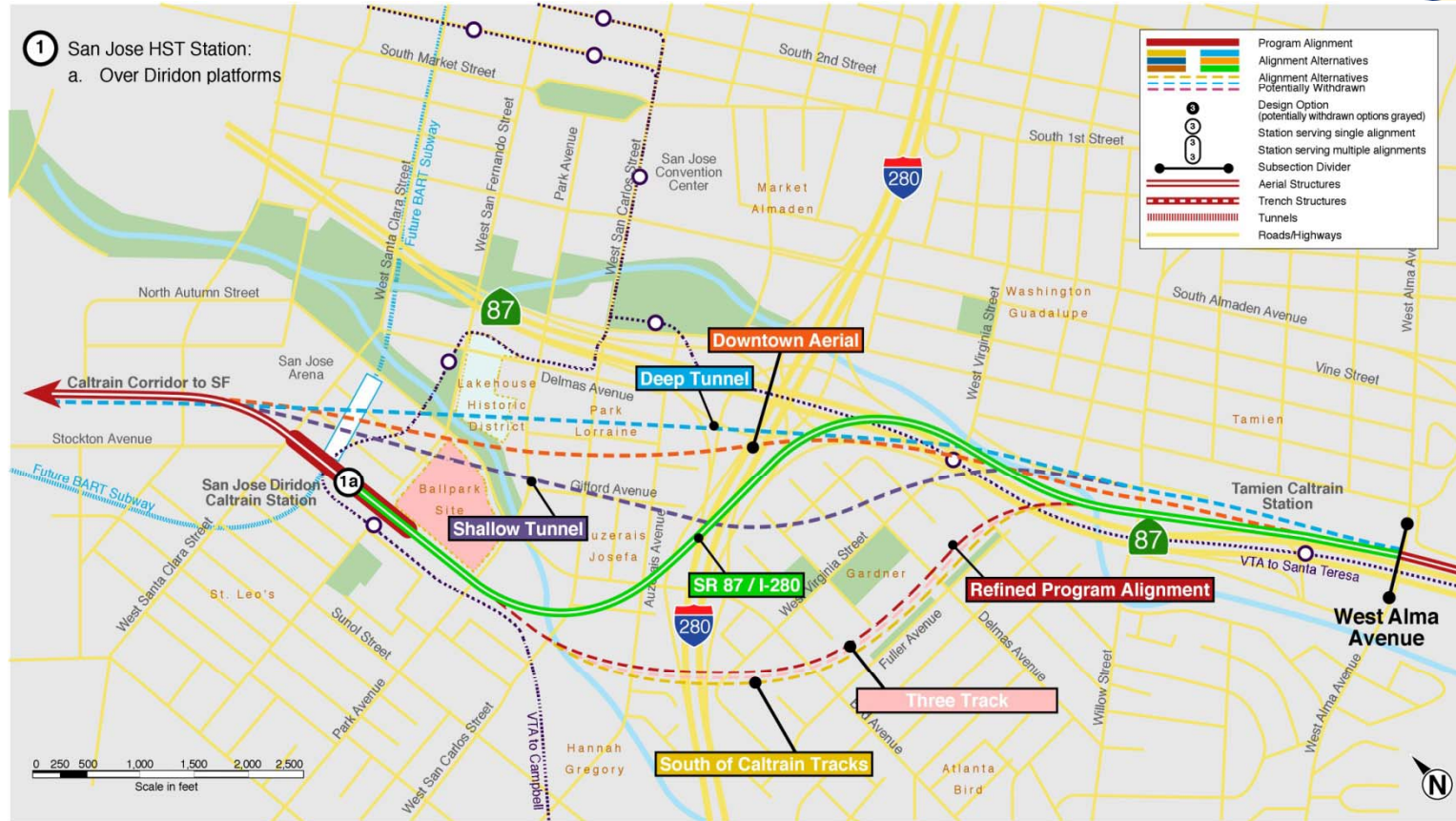
SOLID LINES – recommended to be carried forward
 DASHED LINES – other alternatives evaluated

San Jose to Merced Section - Alignment Alternatives



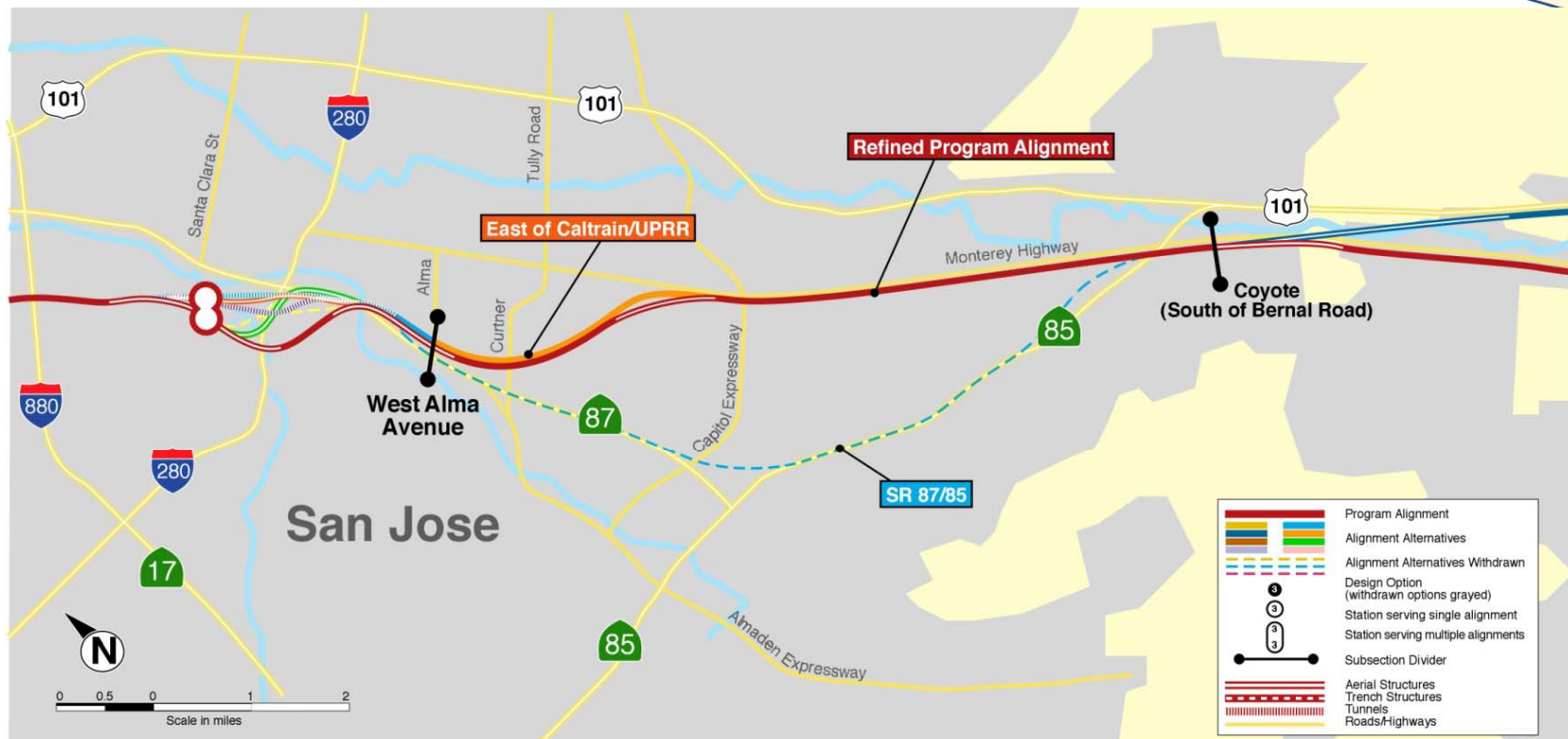
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PRELIMINARY Alternatives Analysis San Jose Station Approach Subsection



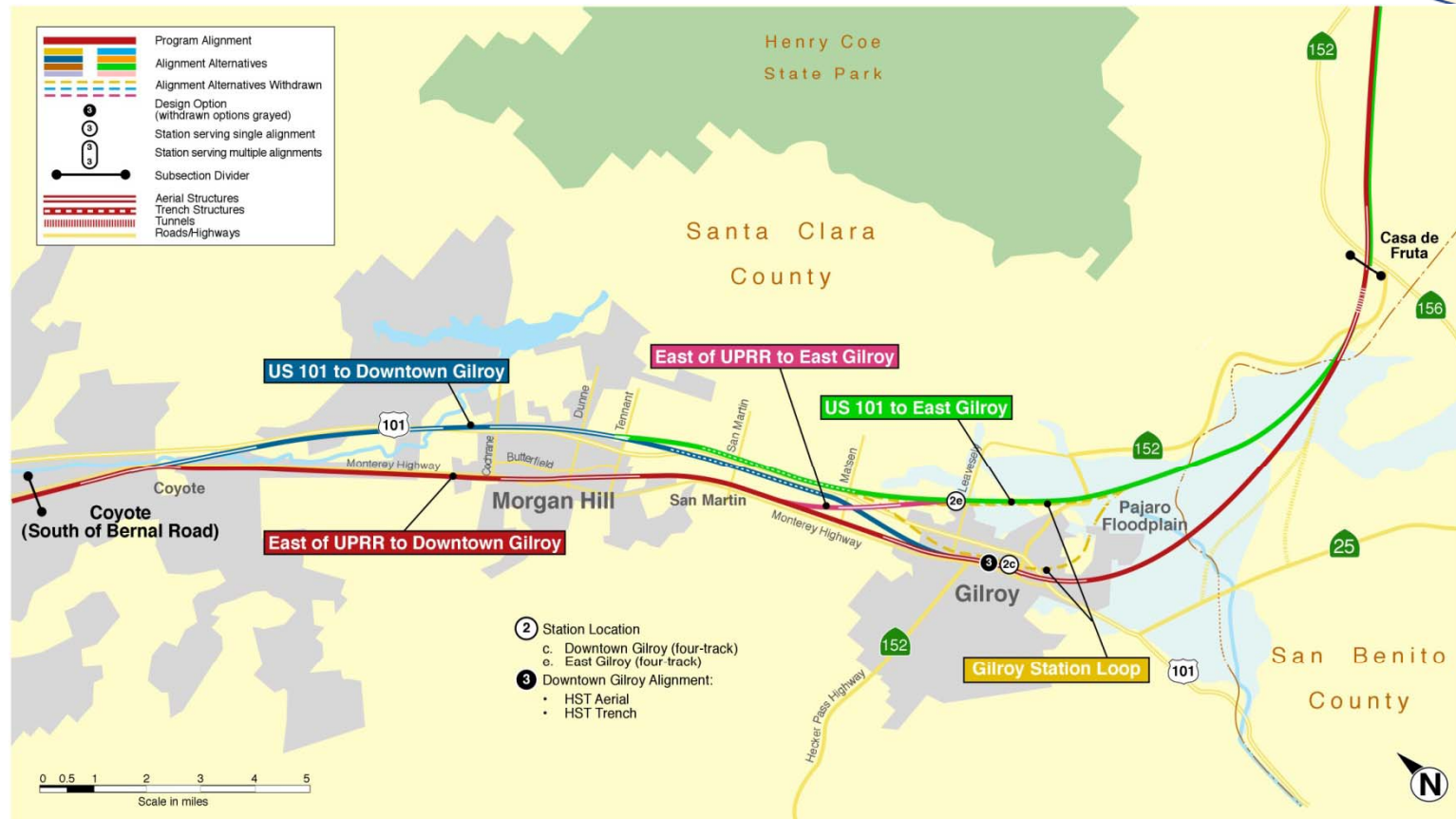
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PRELIMINARY Alternatives Analysis Monterey Highway Subsection



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PRELIMINARY Alternatives Analysis Morgan Hill – Gilroy Subsection



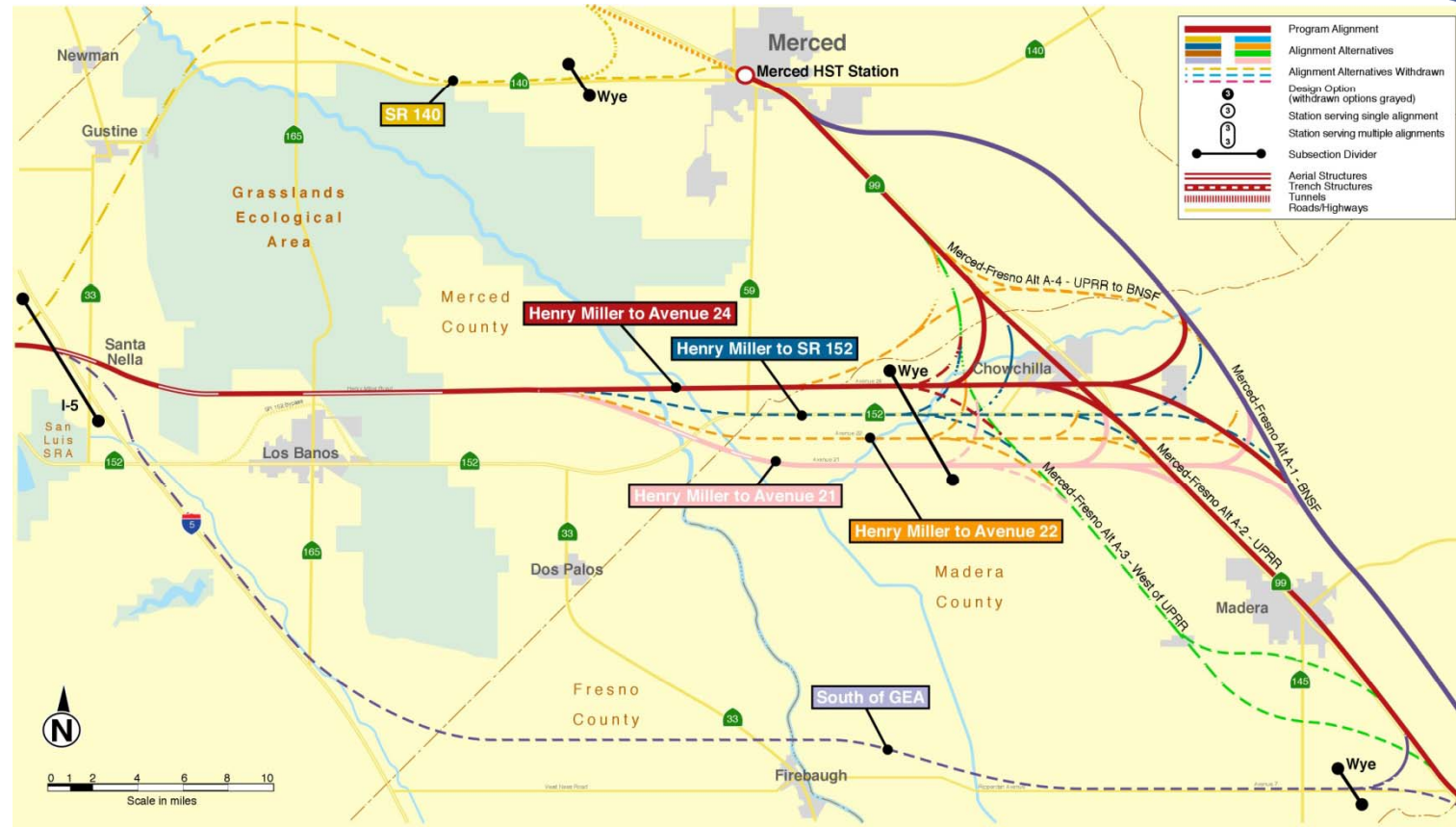
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PRELIMINARY Alternatives Analysis Pacheco Pass Subsection



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PRELIMINARY Alternatives Analysis San Joaquin Valley Subsection



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Agency, Elected Officials and Stakeholder Outreach

TYPE OF MEETING	NO. OF MTGS
Corridor Cities	15
Local, State and Federal Agency Briefings	27
Community/Stakeholder Briefings	26
Elected Officials	8
Public Alternatives Analysis Open Houses	5
<i>Meetings held since release of Preliminary AA</i>	81
<i>Complete list of meetings in Appendix A of Supplemental AA</i>	

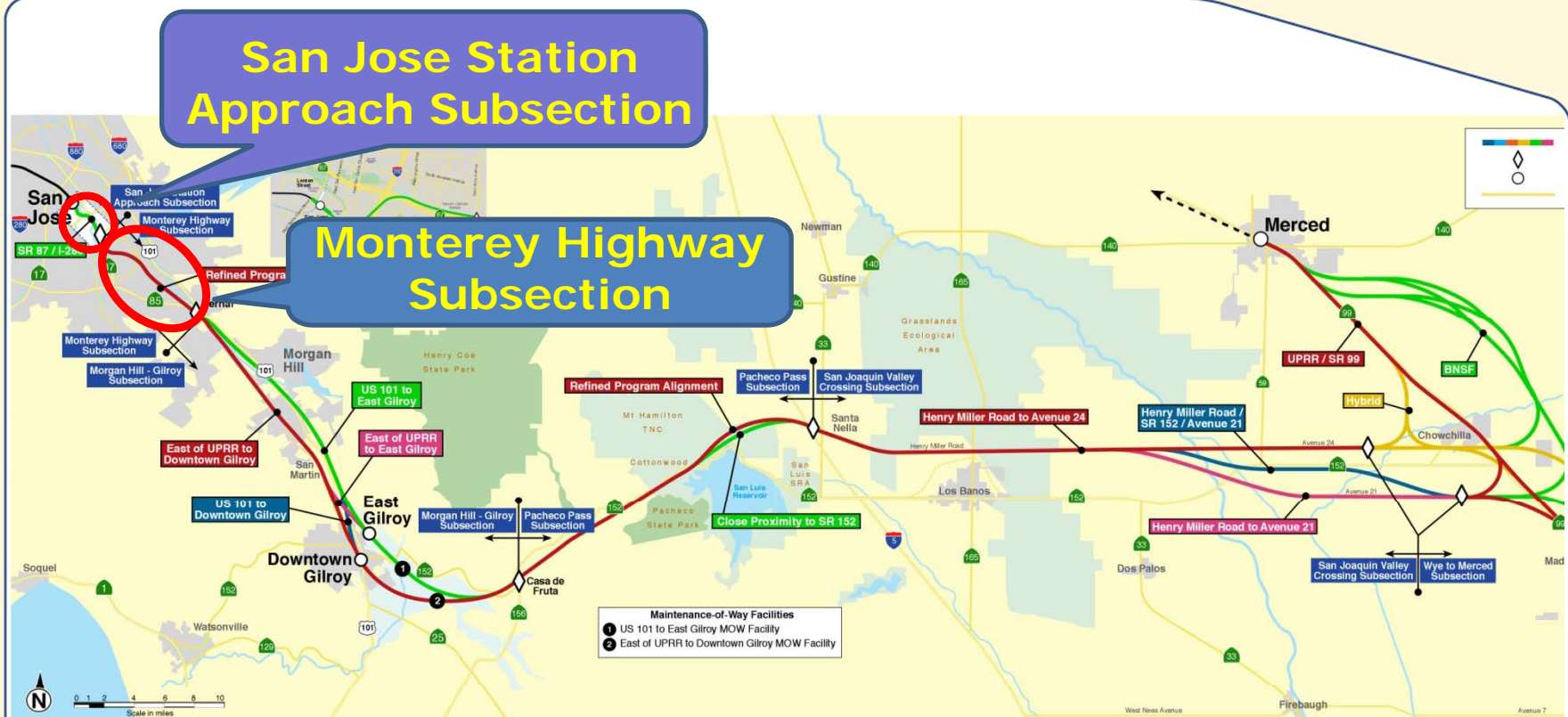
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Supplemental Alternatives Analysis

- Supplemental Alternatives Analysis posted at www.cahighspeedrail.ca.gov
- Comments and feedback heard through extensive agency, elected official and stakeholder outreach shaped the development of the alignment alternatives and station options
- Recommendations today for the following subsections:
 - Morgan Hill – Gilroy
 - Pacheco Pass
 - San Joaquin Valley
- Defer recommendations for subsections in the City of San Jose until Visual Design Guidelines completed

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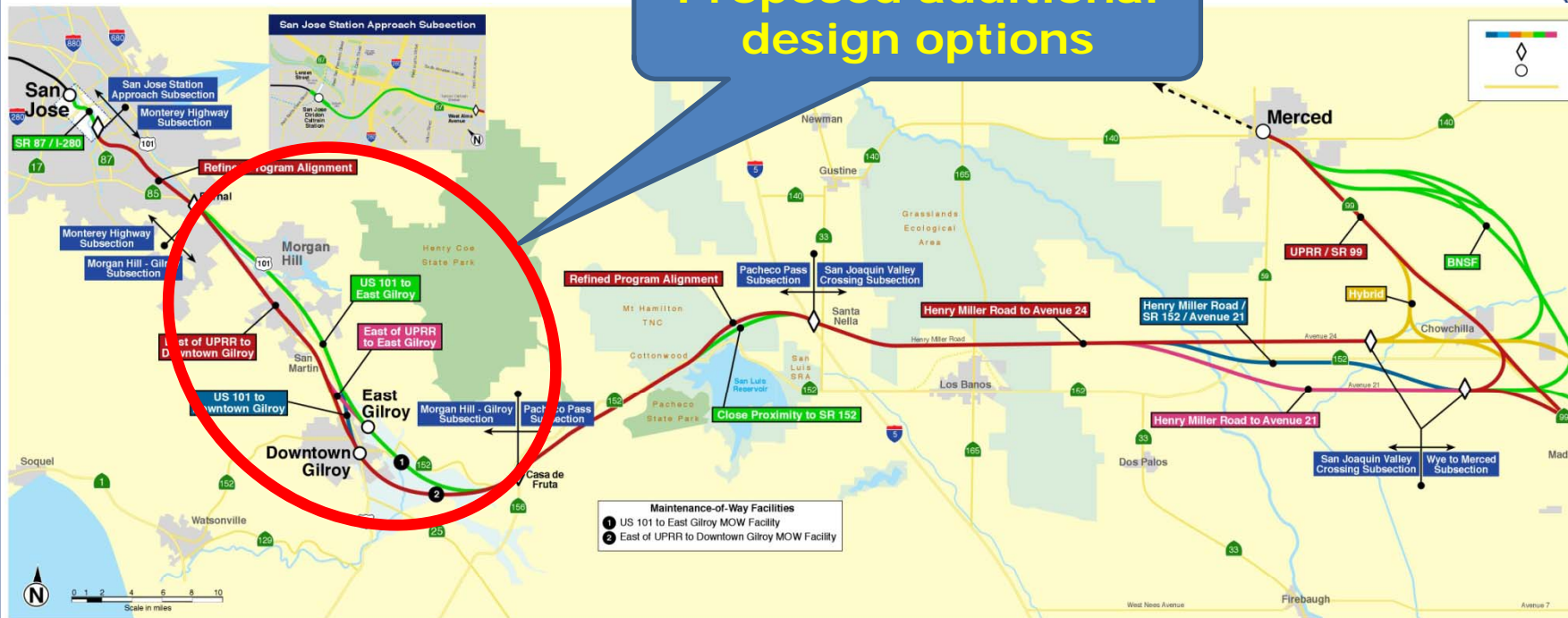
Subsections in San Jose Will be subject of future report*



*** Authority working with City of San Jose and Community Working Groups to develop visual design guidelines**

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Morgan Hill – Gilroy Subsection



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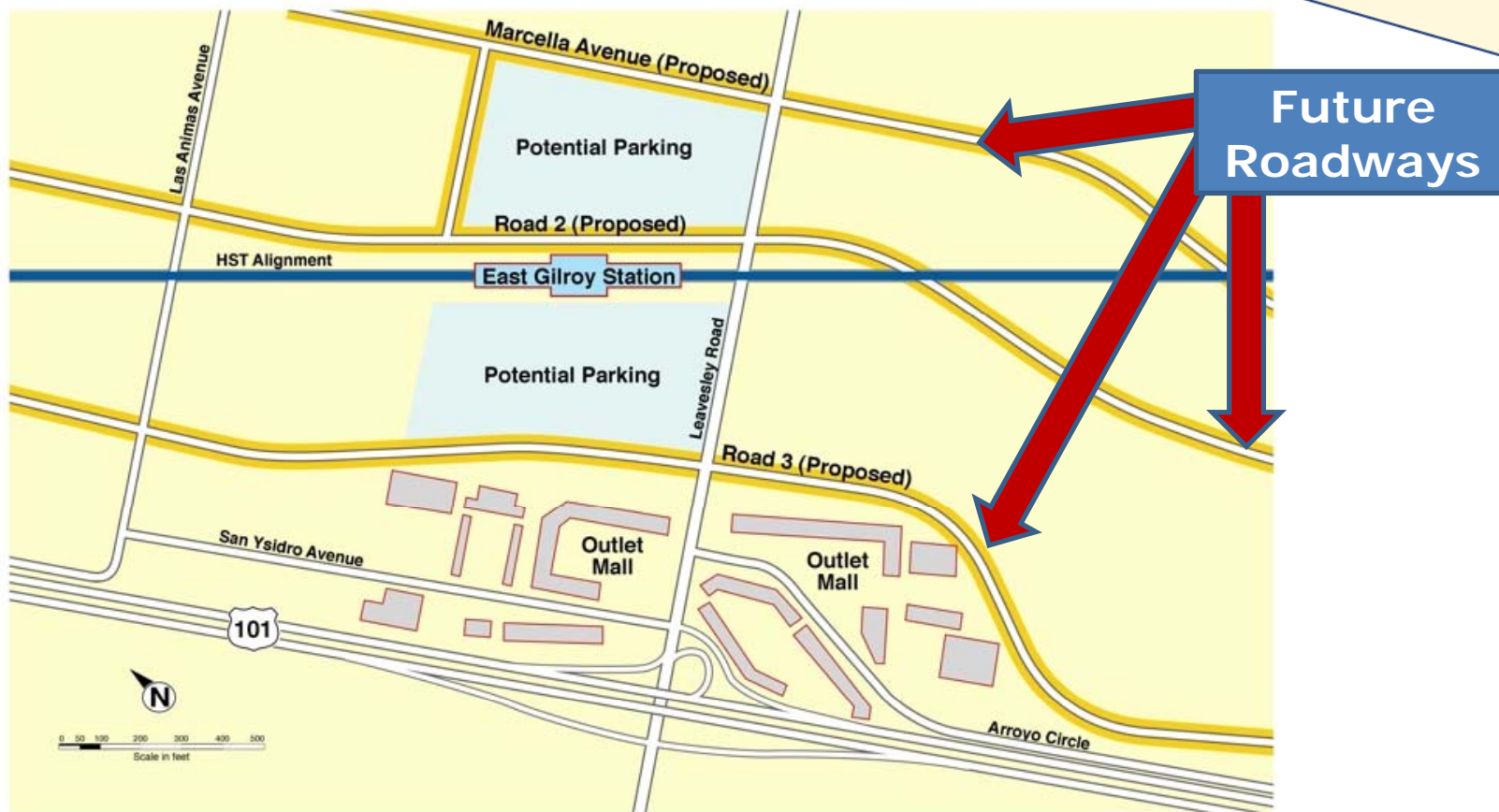
East Gilroy Station Area Proposed Additional Design Options

Preliminary AA → At-grade
Gilroy requested adding aerial design option
to accommodate existing & future roadways



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Existing and Proposed Future Roadways East Gilroy Station Area



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Morgan Hill area Proposed Additional Design Option

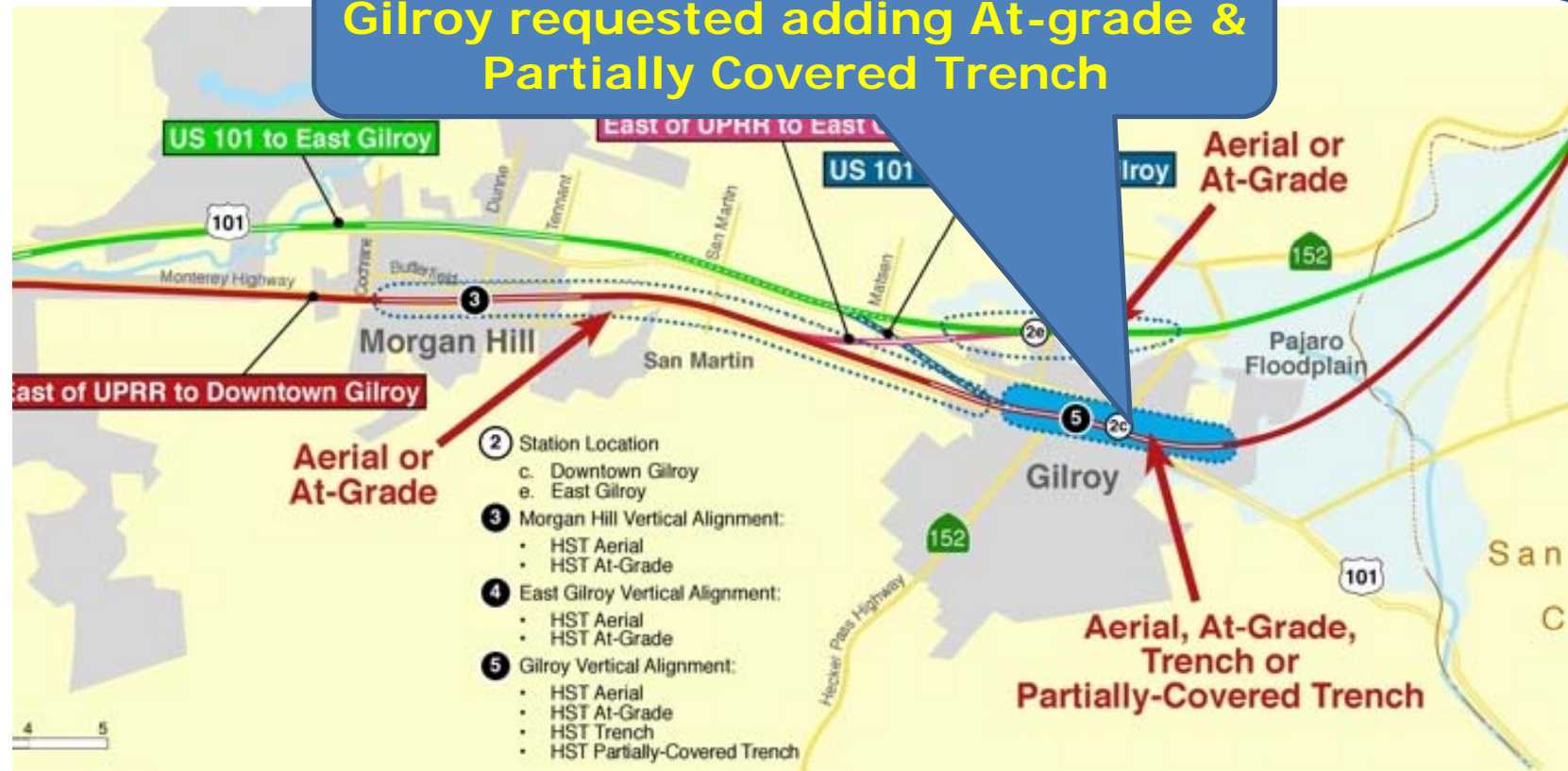
Preliminary AA → Aerial
Morgan Hill requested adding At-grade



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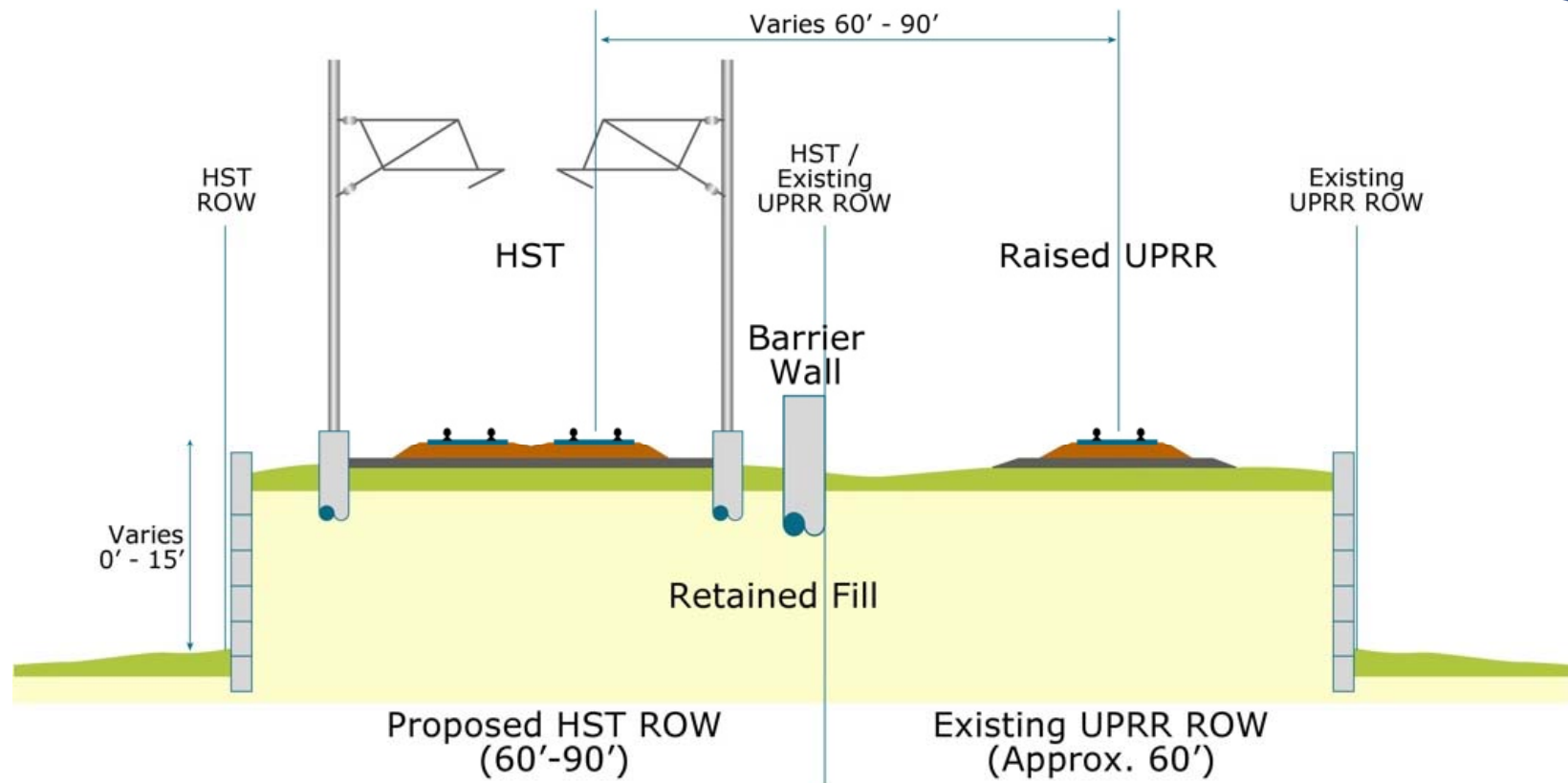
Through Downtown Gilroy Proposed Additional Design Options

Preliminary AA → Aerial + Trench
Gilroy requested adding At-grade & Partially Covered Trench



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Typical Section At-grade (on retained fill)



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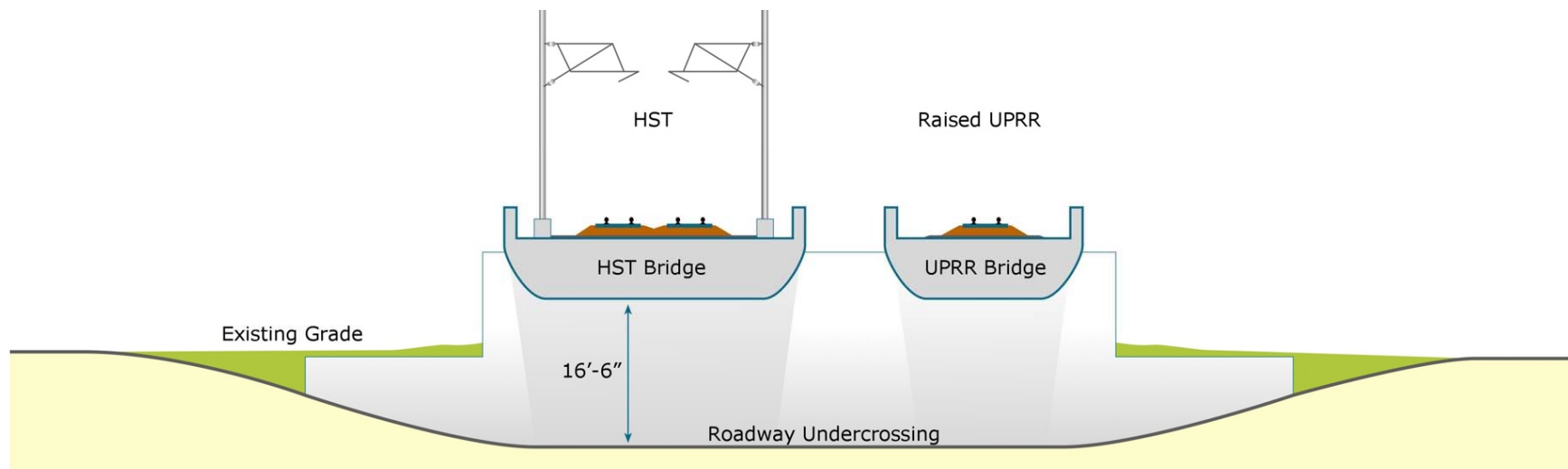
Visual Simulation
At-grade (on retained fill)



Morgan Hill, East 2nd Street

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Typical Section Roadway Undercrossing



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Existing Underpass for
At-grade (on retained fill)



Howard Street, San Carlos

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At-grade BENEFITS

- Increased safety by eliminating UPRR at-grade crossings
- Eliminate UPRR/Caltrain/Amtrak horns
- Maintain major cross street continuity
- Improve traffic circulation on through streets
- Low embankment → less visual impact than higher aerial configuration

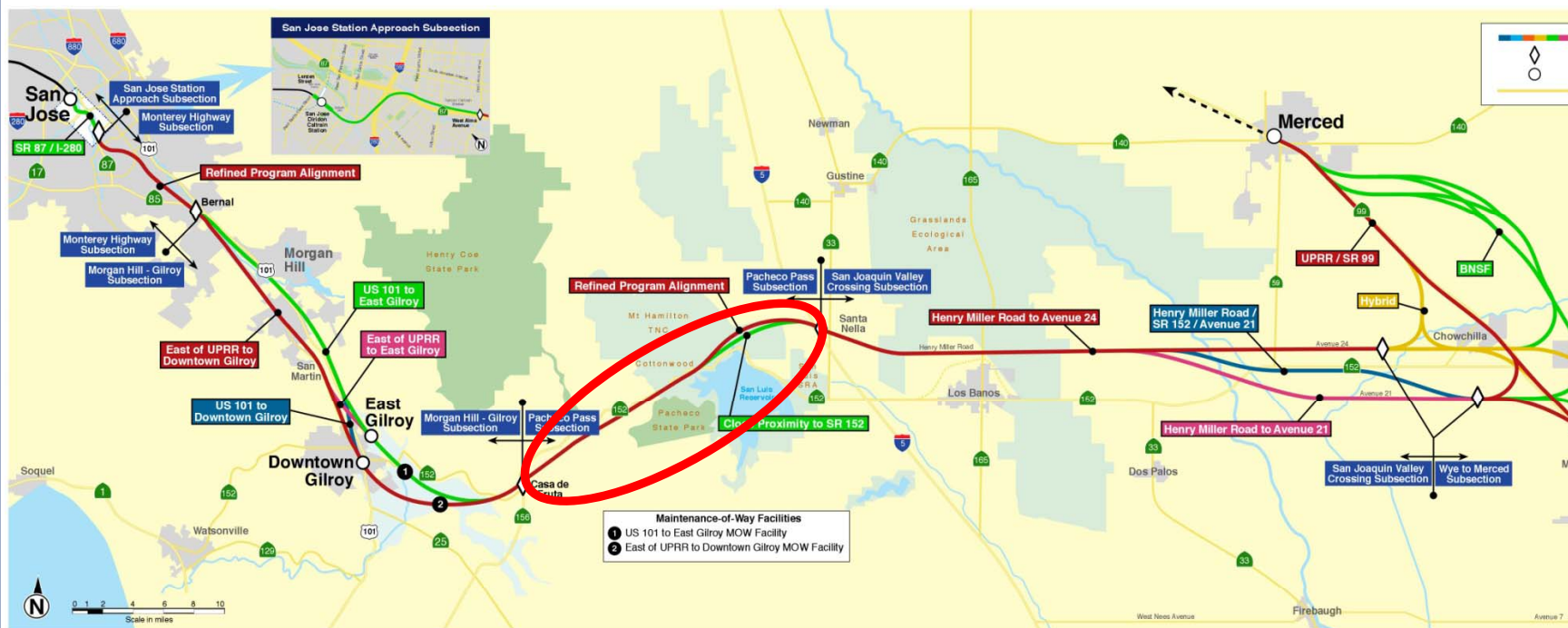
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At-grade CONCERNS

- Some minor local streets terminate at underpasses & at-grade alignment
- Potential impacts:
 - Visual
 - Noise
 - Property
 - Traffic circulation
- Relocation of UPRR during construction

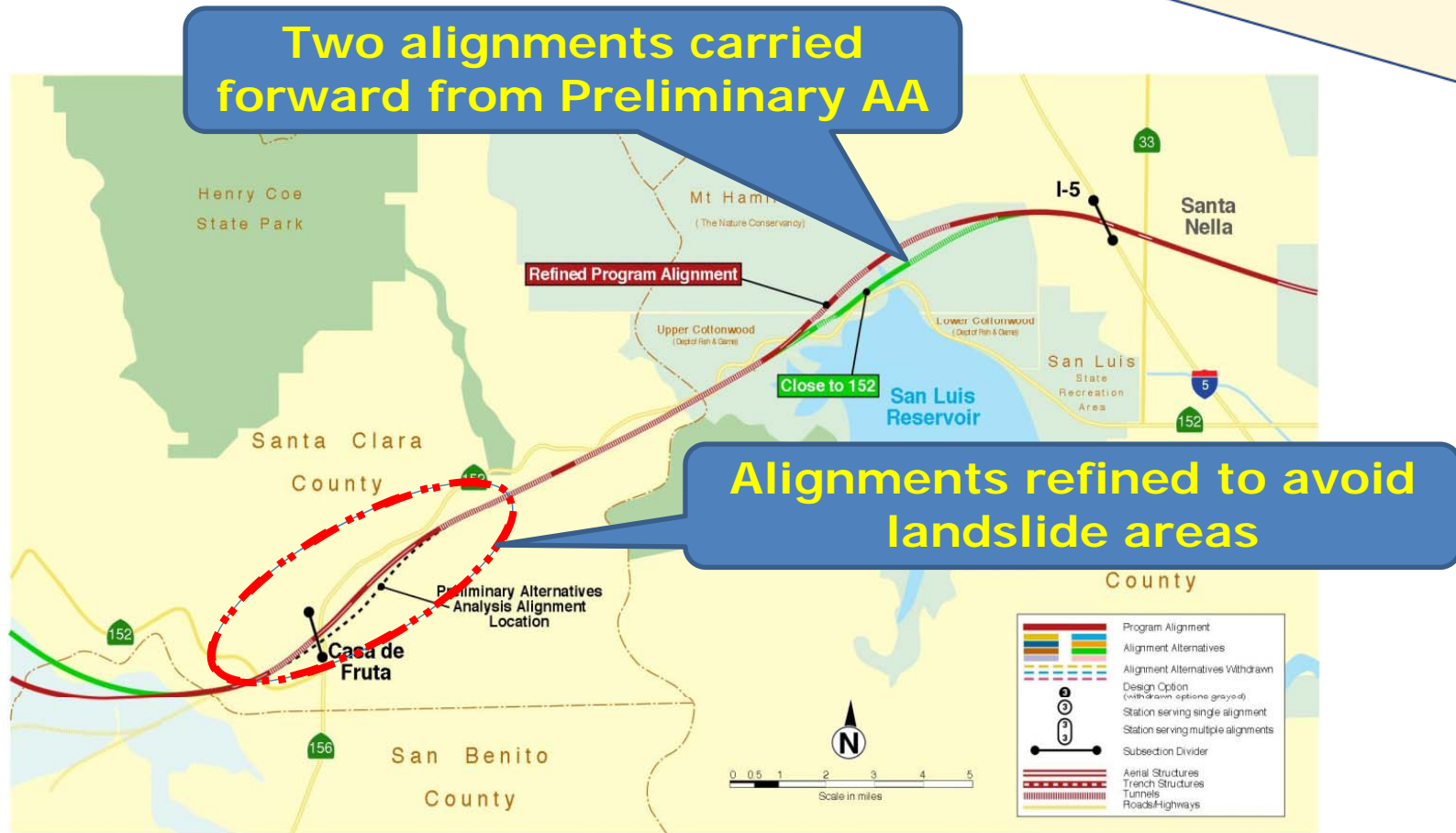
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Pacheco Pass

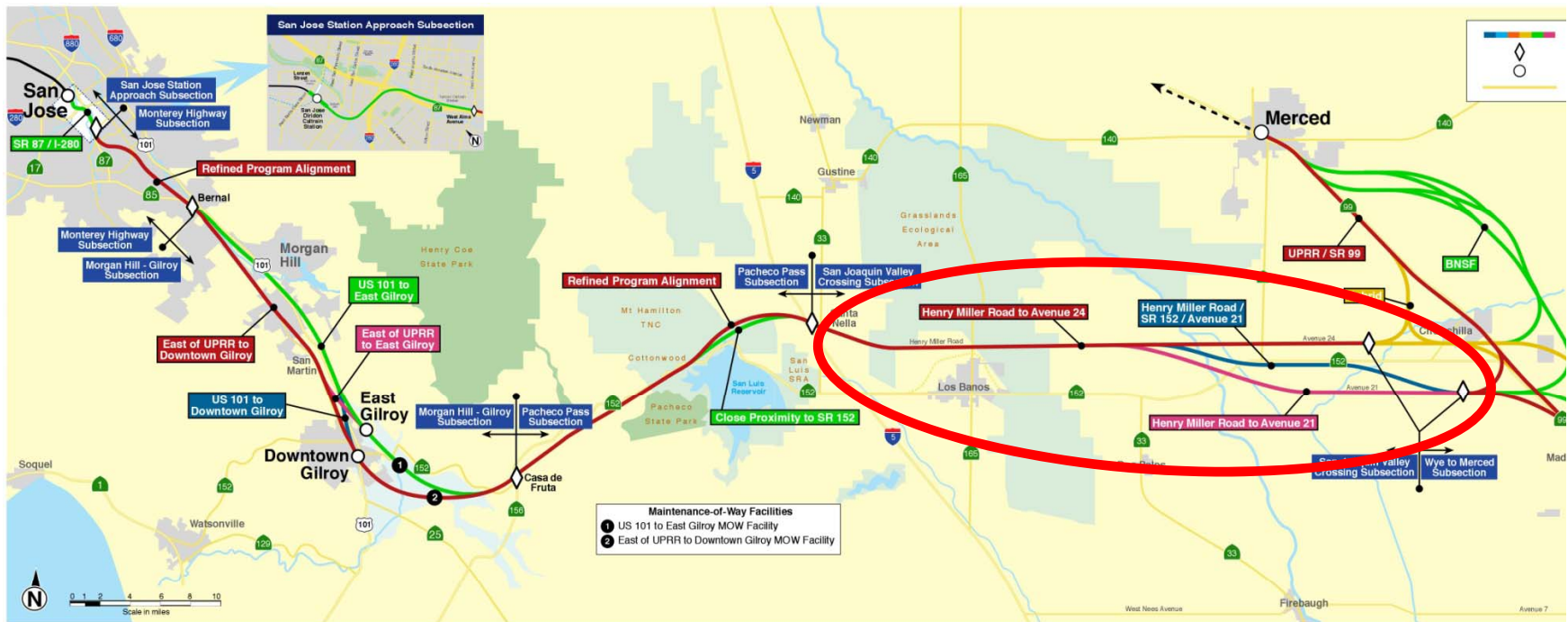


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Pacheco Pass Subsection



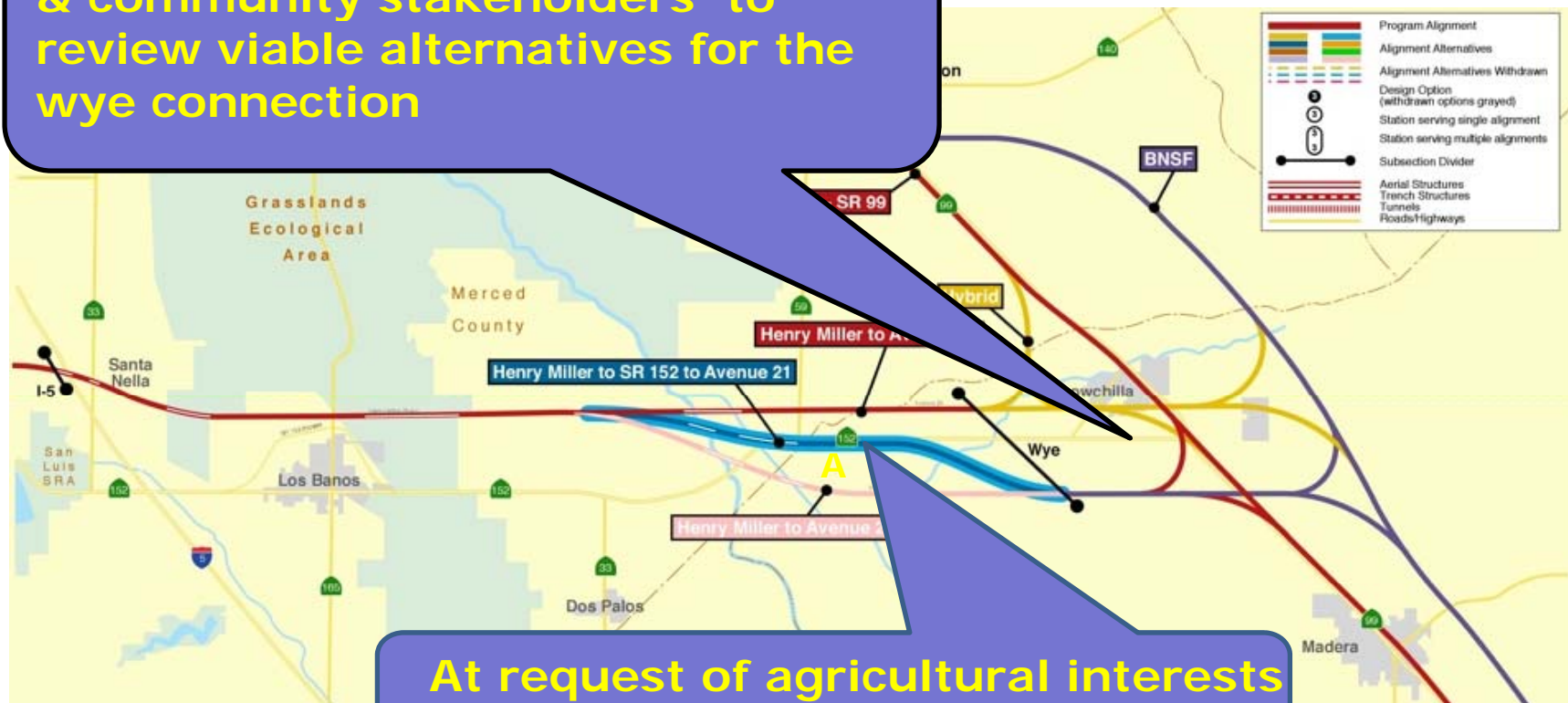
San Joaquin Valley Subsection



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Proposed New Alignment Henry Miller/SR 152/Ave 21

**Continue to work with agricultural
& community stakeholders to
review viable alternatives for the
wye connection**



**At request of agricultural interests
– alignment adjacent to SR 152**

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San Jose Station Approach Subsection

Monterey Highway Subsection

Refined Program Alignment

Bernal

Morgan Hill - Gilroy Subsection

US 101 to East Gilroy

East of UPRR to Downtown Gilroy

East of UPRR to East Gilroy

US 101 to Downtown Gilroy

Downtown Gilroy

East Gilroy

Morgan Hill - Gilroy Subsection

Pacheco Pass Subsection

Close Proximity to SR 152

Refined Program Alignment

Pacheco Pass Subsection

San Joaquin Valley Crossing Subsection

Henry Miller Road to Avenue 24

Henry Miller Road / SR 152 / Avenue 21

Merced

UPRR / SR 99

BNSF

Hybrid

Henry Miller Road / SR 152 / Avenue 21

San Joaquin Valley Crossing Subsection

Wye to Merced Subsection

Maintenance-of-Way Facilities

1 US 101 to East Gilroy MOW Facility

2 East of UPRR to Downtown Gilroy MOW Facility

Refer to Merced to Fresno Supplemental

**Refer to Merced to Fresno Supplemental
AA on Authority website:
www.cahighspeedrail.ca.gov**



CALIFORNIA
High-Speed Rail

Recommended ALTERNATIVES to carry forward Morgan Hill – Gilroy Subsection

Additional Alternative shown in **BOLD**:

- East of UPRR to Downtown Gilroy Alignment Alternative
(design options in Morgan Hill: aerial, **at-grade**)
(design options in Downtown Gilroy: aerial, open trench, **at-grade, partially covered trench.**)
- East of UPRR to East Gilroy Alignment Alternative
(design options in Morgan Hill: aerial, **at-grade**)
(design options in East Gilroy Station area: at-grade, **aerial**)

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Recommended ALTERNATIVES to carry forward Morgan Hill – Gilroy Subsection (continued)

Additional Alternative shown in **BOLD**:

- US 101 to Downtown Gilroy Alignment Alternative
(design options in Downtown Gilroy: aerial, open trench, **at-grade, partially covered trench**)
- US 101 to East Gilroy Alignment Alternative
(design options in East Gilroy Station area: at-grade, **aerial in station area**)

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Recommended STATIONS to carry forward Morgan Hill – Gilroy Subsection

Additional Alternative shown in **BOLD**:

- Gilroy Downtown Station (design options: aerial, trench, **partially covered trench, at-grade**)
- East Gilroy Station (design options: at-grade, **aerial in station area**)

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Recommended ALTERNATIVES to carry forward Pacheco Pass Subsection

- Close Proximity to SR 152 Alignment
- Refined Program Alignment

**Both refined for potential landslide areas in the
western portion of the Pass**

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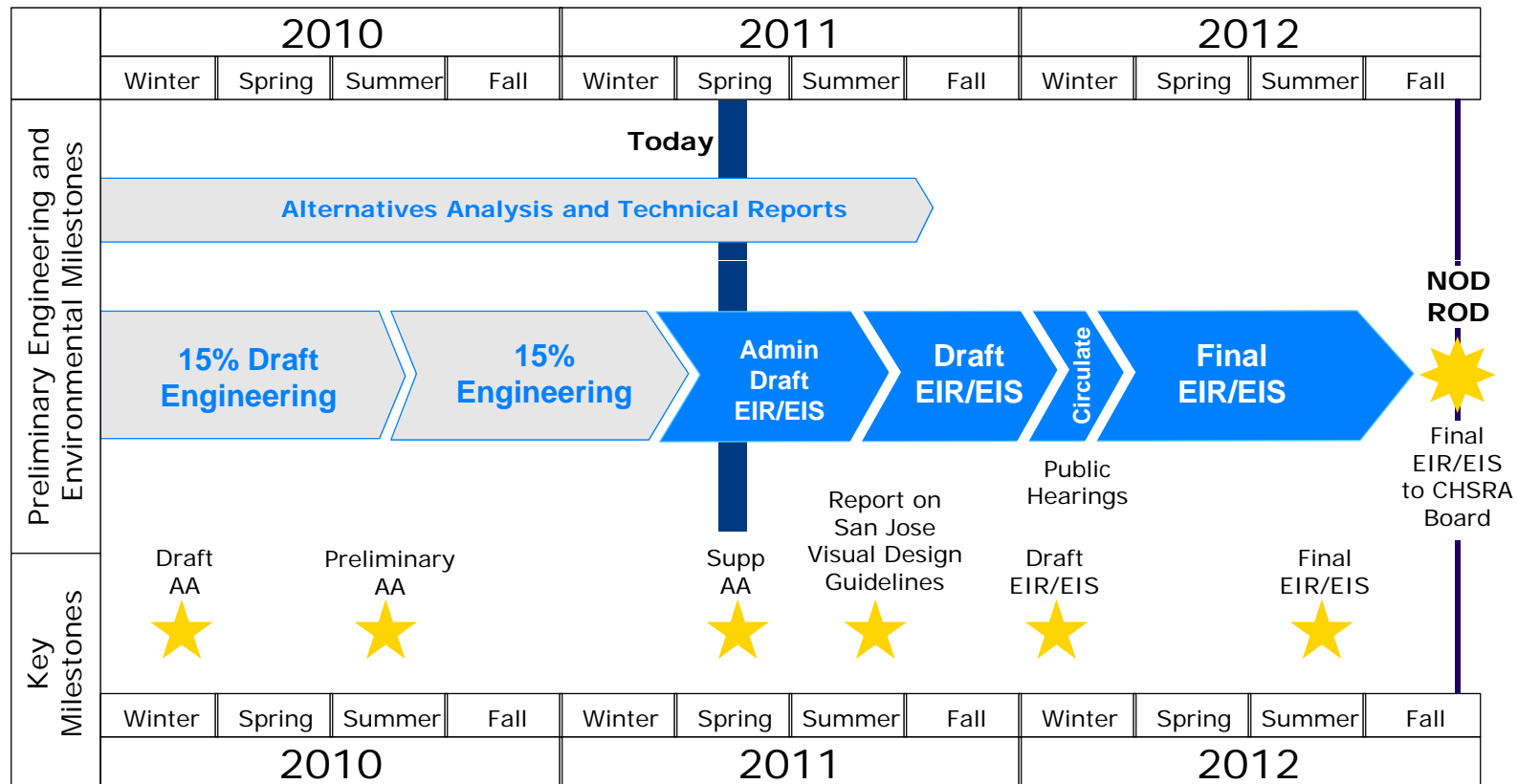
Recommended ALTERNATIVES to carry forward San Joaquin Valley Subsection

Additional Alternative shown in **BOLD**:

- Henry Miller Road to Avenue 24 Alignment Alternative
- Henry Miller Road to Avenue 21 Alignment Alternative
- **Henry Miller Road/SR152/Avenue 21 Alignment Alternative (other alternatives along SR 152 will be considered)**

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Next Steps San Jose - Merced Section



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